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RELIABILITY PREDICTION

Model : PPQ-1003 Data:2002-10-11

Style	Part Type	Q'ty	λ_g	π_Q	λ_{eg}	%
9.1	Resistor-Film, Insulated (RL)	66	0.003700	10	2.442000	36.793
9.1	Resistor-Wirewound Power (RW)	2	0.008500	10	0.170000	2.561
9.1	Resistor-Film, Variable (RVC)	2	0.040000	10	0.800000	12.054
9.1	Resistor-Thermistor (RTH)	1	0.001400	10	0.014000	0.211
10.1	Capacitor-Metal, Plastic (CH)	16	0.000510	10	0.081600	1.229
10.1	Capacitor-Ceramic(Gen.) (CK)	18	0.001700	10	0.306000	4.610
10.1	Capacitor-Aluminum Dry (CE)	16	0.001300	10	0.208000	3.134
6.1	Diode-Gen. Purpose Analog	1	0.003600	8	0.028800	0.434
6.1	Diode-Switching	17	0.000940	8	0.127840	1.926
6.1	Diode-Fast Recovery Power Rectifier	4	0.023000	8	0.736000	11.089
6.1	Diode-Power Rectifier / Schottky Power	8	0.002800	8	0.179200	2.700
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	5	0.003300	8	0.132000	1.989
6.1	Diode-Transient Suppressor/Varistor	1	0.002900	8	0.023200	0.350
6.10	Diode-Thyristor/SCR	1	0.002500	8	0.020000	0.301
6.3	Transistor-NPN/PNP	1	0.000150	8	0.001200	0.018
6.3	Transistor-Power NPN/PNP	1	0.005700	8	0.045600	0.687
6.4	Transistor-MOSFET	2	0.014000	8	0.224000	3.375
6.11	OPTO-isolator	2	0.027000	8	0.432000	6.509
6.11	OPTO-Emitter	1	0.000470	8	0.003760	0.057
5.1	Linear Microcircuits	5	0.009500	10	0.475000	7.157
11.1	Transformer Switching	1	0.000610	3	0.001830	0.028
11.2	Coil Fixed inductor or choke	6	0.000032	3	0.000576	0.009
15.1	Connector- Rectangular	1	0.050000	2	0.100000	1.507
17.1	Single Connections-Reflow solder	438	0.000069	1	0.030222	0.455
17.1	Fuses Clip-Clip Termination	2	0.000120	1	0.000240	0.004
22.1	Fuses	1	0.010000	1	0.010000	0.151
16.1	Plated Through Hole Circuit Boards	1	0.022000	2	0.044000	0.663
Total Failure rate:					6.637068	100%

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**

MTBF: 150668.94 **hrs**

- **Env.: GB**

研發部 91.10.11 王誠賓

Approved by: _____ . Compiled by: _____

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